PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Philippe ANTOINE Attorney Docket Q63899

Appln. No.: not yet assigned Group Art Unit: not yet assigned

Confirmation No.: not yet assigned Examiner: Not yet assigned

Filed: April 24, 2001

For: METHOD TO GENERATE A PSEUDO-RANDOM SEQUENCE OF MULTI-CARRIER

DATA SYMBOLS, AND RELATED TRANSMITTER AND RECEIVER

PRELIMINARY AMENDMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

The specification is changed as follows:

Page 1, after the title, insert the heading

BACKGROUND OF THE INVENTION

Page 3, after line 8, insert the heading

SUMMARY OF THE INVENTION

Page 5, after line 15, insert the heading

BRIEF DESCRIPTION OF THE DRAWINGS

after line 27, insert the heading

DETAILED DESCRIPTION OF THE INVENTION

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IN THE ABSTRACT:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.

ABSTRACT

To generate a pseudo-random sequence (PRMS1) of multi-carrier data symbols (DMT0, DMT1, DMT2), a pseudo-random bit sequence (PRBS1) is produced by repetitively generating a pseudo-random sequence of L bits, L being a first integer value (L=4). To create a multi-carrier data symbol (DMT0, DMT1, DMT2) N bits are used, N being a second integer value (N=8). The pseudo-random bit sequence (PRBS1) is subdivided into strings of N' bits, N' being a third integer value larger than N (N'=9), and N bits out of each string of N' bits are used to generate a respective multi-carrier data symbol (DMT0, DMT1, DMT2). N'-N bits out of each string of N' bits are left unused.

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REMARKS

Entry and consideration of this Amendment are respectfully requested.

Respectfully submitted,

David J. Cushing

Registration No. 28,703

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, D.C. 20037-3213 Telephone: (202) 293-7060

Facsimile: (202) 293-7860

Date: April 24, 2001

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

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The specification is changed as follows:

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BRIEF DESCRIPTION OF THE DRAWINGS

after line 27, insert the heading

DETAILED DESCRIPTION OF THE INVENTION

IN THE ABSTRACT OF DISCLOSURE:

The abstract is changed as follows:

ABSTRACT

METHOD TO GENERATE A PSEUDO RANDOM SEQUENCE OF MULTI-CARRIER DATA SYMBOLS, AND RELATED TRANSMITTER AND RECEIVER

To generate a pseudo-random sequence (PRMS1) of multi-carrier data symbols (DMT0, DMT1, DMT2), a pseudo-random bit sequence (PRBS1) is produced by repetitively generating a

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pseudo-random sequence of L bits, L being a first integer value (L=4). To create a multi-carrier data symbol (DMT0, DMT1, DMT2) N bits are used, N being a second integer value (N=8). The pseudo-random bit sequence (PRBS1) is subdivided into strings of N' bits, N' being a third integer value larger than N (N'=9), and N bits out of each string of N' bits are used to generate a respective multi-carrier data symbol (DMT0, DMT1, DMT2). N'-N bits out of each string of N' bits are left unused.